

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 1119

Roll No.

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B. Tech.

(Semester-I) Theory Examination, 2012-13

MANUFACTURING PRACTICES

Time : 2 Hours]

[Total Marks : 50

Note : Attempt questions from all Sections as per instructions.

Section-A

Attempt *all* parts of this question. Each question carries 2 marks.

2×5=10

1.
 - (a) Mention the use of Try Square and Gauges.
 - (b) Mention various forging operations.
 - (c) Mention shearing operations.
 - (d) Define speed and feed incase of lathe..
 - (e) Mention various types of pattern.

Section-B

Attempt any *three* parts of this question. Each part carries 5 marks. $5 \times 3 = 15$

2. (a) Why seasoning of wood is required and explain what do you understand by seasoning and mention types of seasoning the wood.
- (b) Define Forgeability and explain the following with relevant sketches :
- (i) Upsetting
 - (ii) Forge Welding.
- (c) Explain with neat sketch Electric Arc Welding process with advantages and applications.
- (d) Explain with neat sketches the following lathe operations :
Taper turning by swivelling the compound rest method.
- (e) Explain in detail the types of allowances provides to the pattern and their importance.

Section-C

Attempt *all* questions of this Section. Each question carries 5 marks. $5 \times 5 = 25$

3. Attempt any one part : $5 \times 1 = 5$
- (a) Write a note on defects in Timber.
 - (b) Explain cross filing and draw filing.

4. Attempt any one part : 5×1=5

(a) Explain with neat sketches :

(i) Seam welding

(ii) Projection welding.

(b) Mention various sheet metal working machines and explain Shearing machine and Wiring machine.

5. Attempt any one part : 5×1=5

(a) With neat sketch explain the nomenclature of single point cutting tool.

(b) Explain with relevant sketches the Gang milling and Form milling operations.

6. Attempt any one part : 5×1=5

(a) Write short notes on Sheet metal joints and Sheet metal allowance.

(b) With neat sketch explain Tumbler gear mechanism with respect to lathe machine tool.

7. Attempt any one part :

5×1=5

- (a) What are the important factors to be considered while selecting pattern material ?
- (b) Write the characteristics of natural sand.
- (c) Write short note on Sand Additives.